

Monoclonal Antibody IOTest® CD81-PE

PN IM2579- 100 tests – Liquid - 20 µL/test - Clone JS64

For Research Use Only. Not for use in diagnostic procedures.

SPECIFICITY

The CD81 molecule is a single chain, 4 transmembrane domains protein (Tetraspan/TM4SF). Both the NH₂- and COOH-termini are located inside the cytoplasm, and two loops of the protein sequence are exposed extracellularly. CD81 antigen is not glycosylated and its molecular weight is 26 kDa.

Its tissue distribution is broad, and this antigen may be present in some cases as multimolecular complexes, in association with other members of the TM4 superfamily (CD37, CD53) or, on the surface of B cells, in association with CD19 and/or CD21 and/or MHC class II antigens. Most B lymphocytes, at all stages of cellular differentiation, express CD81 at relatively high levels.

The JS64 monoclonal antibody (mAb) reacts with the majority of normal lymphocytes, monocytes and eosinophils whereas neutrophils and platelets are negative.

JS64 antibody has an anti-proliferative effect on some cell lines, but does not cause apoptosis.

The JS64 mAb has been assigned to the CD81 cluster of differentiation at the fifth International Workshop on Human Leucocyte Differentiation Antigens held in Boston, USA, in 1993 (1).

REAGENT

IOTest CD81-PE Conjugated Antibody
PN IM2579 - 100 tests - Liquid - 20µL/test

Clone	JS64
Isotype	IgG2a, Mouse
Immunogen	Burkitt's lymphoma cell line: Ramos
Hybridoma	P3-NS1/1-Ag.4.1 x Balb/c spleen cells
Source	Ascites fluid
Purification	Protein A affinity chromatography
Conjugation	R Phycoerythrin (PE)
Molar Ratio	PE / Ig : 0.5 - 1.5
Fluorescence	Excites at 486-509 nm Emits at 568-590 nm

REAGENT CONTENTS

This antibody is provided in phosphate-buffered saline, containing 0.1% sodium azide and 2 mg/mL bovine serum albumin.

APPLICATION

Flow cytometry.

STATEMENTS OF WARNING

1. This reagent contains 0.1% sodium azide. Sodium azide under acid conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, wash excessively with water.
2. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
3. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
4. Do not use antibody beyond the expiration date on the label.
5. Do not expose reagents to strong light during storage or incubation.
6. Avoid microbial contamination of reagents or incorrect results might occur.
7. Use good laboratory practices when handling this reagent.

STORAGE CONDITIONS AND STABILITY

This reagent is stable up to the expiration date when stored at 2 – 8°C. Do not freeze.

REAGENT PREPARATION

No reconstitution is necessary. This monoclonal antibody may be used directly from the vial. Bring reagent to 18 – 25°C prior to use.

PROCEDURE

This reagent is designed for Flow Cytometry. Assay volume: 20 µL per 5 x 10⁵ cells in one test, or per 100 µL whole blood.

SELECTED RESEARCH REFERENCES

1. Pesando, J.M., Conrad, T., "Antibody-induced antigenic modulation is antigen dependent: characterization of 22 proteins on a malignant human B-cell line", 1986, J. Immunol., 137, 11, 3689-3695.

2. Pesando, J.M., Abed, M., "Malignant Human B cells express two populations of p24 surface antigens", 1986, J. Immunol., 136, 7, 2709-2714.

3. Cawley, B., Erber, W., "Immunocytochemical analysis of the B cell blind panel on lymphoid malignancies", 1993, Tissue Antigens, 42, 4, 304.

4. Angelesoliva, P., et al., "Large non covalent complexes involving HLA-DR and four antigens of the tetraspan superfamily" (CD37, CD53, TAPA-1 and R2), 1993, Tissue antigens, 42, 4, 308.

5. Tedder, T.F., Wagner, N., Engel, P., "CD81 Workshop report", 1995, in Leucocyte Typing V, white Cell Differentiation Antigens. Schlossman, S.F., et al., Eds., Oxford University Press, p. 684-688.

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